

## Notice Inviting Tender

Open tenders are invited from the registered contractors (registered with State Govt. / Central Govt. or State / Central Govt. Undertaking) for the following work:-

S. N.	Item	Estimated Cost	Earnest Money	Last Date of Sale of Tender	Last date for receiving filled tenders	Date of Opening of tenders
1	SITC of Public Addressing System & Emergency Voice Communication System at Pant Krishi Bhawan, Janpath Jaipur	Rs. 5.00 Lacks	Rs. 10000	26.04.2016	27.04.2016 Up to 1:00 PM	27.04.2016 3:30 PM

Interested Bidder may purchase bid document by depositing Rs. 400/- (cash/DD) from R.N. 147, Pant Krishi Bhawan, Janpath, Jaipur on any working day during Office time or may download the bid form, from the departmental website [www.krishi.rajasthan.gov.in](http://www.krishi.rajasthan.gov.in). Details of the bid document may be seen at departmental website.

  
(Niraj K Pawan)

Commissioner & Ex.  
Officio Sp. Secretary  
Agriculture

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**(Niraj K Pawan)**  
Commissioner & Ex.  
Officio Sp. Secretary  
Agriculture

**Commissionerate of Agriculture**  
**Pant Krishi Bhawan Common Facility Committee**  
**Room No147, Pant Krishi Bhawan, Jaipur**

F2 ( )/CT/Gen/2016-17/

Date

**BID DOCUMENT**

SITC of Public addressing sys. & Emergency Voice  
Communication System at Pant Krishi Bhawan, Janpath  
Jaipur.

<b>Estimated Cost of Work</b>	<b>: Rs. 5.00 Lacs</b>
<b>Mode of Bid Submission</b>	<b>: Open competitive Bidding</b>
<b>Last Date of sale of Bid Document</b>	<b>: 26.04.2016</b>
<b>Last Date of Submission of Bid Fee</b>	
<b>Bid Document &amp; Bid Security</b>	<b>: 27.04.2016 up to 1:00 PM</b>
<b>Opening of Bid</b>	<b>: (On 27.04.2016 at 3:30 P.M.)</b>

**at**

**Pant Krishi Bhawan, DOA**

1<sup>st</sup> Floor, Pant Krishi Bhawan, Janpath, Jaipur (Rajasthan)

Phone: 0141-2227471 Fax: 0141-2227088

Web: <http://krishi.rajasthan.gov.in>, Email: [caretaker\\_agr@rediffmail.com](mailto:caretaker_agr@rediffmail.com)

**Cost: Rs. 400/-**

F2 ( )/CT/Gen/2015-16/

Date

**INVITATION FOR BID (IFB) & NOTICE INVITING BID (NIB)**

<b>UBR No.</b>	
<b>NIB Ref. No.</b>	01/2016-17
<b>Name &amp; Address of the Procuring Entity</b>	<ul style="list-style-type: none"> <li>Name: Commissioner &amp; Special Secretary, Agriculture</li> <li>Address: Pant Krishi Bhawan, Janpath, Jaipur (Rajasthan)</li> </ul>
<b>Name &amp; Address of the OIC (Procurement Cell)</b>	<ul style="list-style-type: none"> <li>Name: Raman Nepalia</li> <li>Designation: Assistant Engineer (Maintenance)</li> <li>Address: Room No 147, Pant Krishi Bhawan, Janpath, Jaipur (Rajasthan)</li> <li>Email: <a href="mailto:raman.nepalia@rajasthan.gov.in">raman.nepalia@rajasthan.gov.in</a>, caretaker_agr@rediffmail.com</li> </ul>
<b>Subject Matter of Procurement</b>	Supply and Installation of Public Addressing Sys. & Emergency Voice Communication System at Pant Krishi bhawan, Janpath Jaipur, Rajasthan.
<b>Bid Procedure</b>	Single-stage: two part (envelop) national open competitive Bidding procedure, separate envelop for Financial Bid (H-Schedule)
<b>Bid Evaluation Criteria (Selection Method)</b>	Least Cost Based Selection (LCBS)-L1
<b>Websites for downloading Bidding Document, Corrigendum's, Addendums etc.</b>	<ul style="list-style-type: none"> <li>Websites: <a href="http://www.rajasthan.gov.in">http://www.rajasthan.gov.in</a>, <a href="http://krishi.rajasthan.gov.in">http://krishi.rajasthan.gov.in</a></li> <li>Bidding document fee: Rs. 400/- (Rupees Four Hundred only) in Cash/ Demand Draft in favour of "Commissioner &amp; Special Secretary,Agriculture" payable at "Jaipur".</li> </ul>
<b>Estimated Procurement Value</b>	Rs. 5.00. Lacs (Rupees Five Lacks only)
<b>Estimated Completion period of project</b>	2 Months after issue of Work Order
<b>Bid Security</b>	<ul style="list-style-type: none"> <li>Amount (INR): 10000.00 (Rupees Ten Thousand only)</li> </ul>
<b>Period of Sale of Bidding Document (Start/ End Date)</b>	
<b>Manner, Start/ End Date for the submission of Bids</b>	<ul style="list-style-type: none"> <li>Manner: <b>Physical submission of tender</b></li> <li>Start Date: 11.04.2016</li> <li>End Date: 27.04.2016</li> </ul>
<b>Submission of Bid Fee, Bid Security</b>	Physically at R.NO.147,Pant Krishi Bhawan Janpath Jaipur upto date: 27.04.2016 up to 01:00 PM
<b>Date/ Time/ Place of Technical Bid Opening</b>	<ul style="list-style-type: none"> <li>Date: 27.04.2016</li> <li>Time: 3:30 PM</li> <li>Place: Pant Krishi Bhawan, Committee Room, First Floor, Jaipur (Rajasthan)</li> </ul>
<b>Date/ Time/ Place of Financial Bid Opening</b>	Will be intimated later to the Technically qualified bidders
<b>Bid Validity</b>	90 days (Three Months) from the bid submission deadline

Note:

- 1) Bidder (authorised signatory) shall submit their offer physically both for technical and financial proposal. Bid Fees and Bid Security should be submitted physically at the office of Biding Authority as prescribed in NIB.
- 2) \* In case, any of the bidders fails to physically submit the Bid Fee, Bid Security as per the time schedule mentioned above, its Bid shall not be accepted. The Demand Draft for Bidding document fee and Bid Security should be drawn in favour of Commissioner & Special secretary, Agriculture
- 3) The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- 4) No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- 5) Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
- 6) The provisions of RTPP Act 2012 and RTTP Rules 2013 thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPP Act 2012 and RTTP Rules 2013 thereto, the later shall prevail.

**Commissionerate of Agriculture  
Pant Krishi Bhawan Samuhik Suvidha Samiti  
Room No147, Pant Krishi Bhawan, Jaipur**

F2 ( )CT/Gen/2016-17/

Date

**Bid Form**

1. Bid for **SITC of Public addressing system & Emergency Voice Communication System at Pant Krishi Bhawan, Janpath Jaipur.**
2. Name and postal address of the firm submitting the Bid  
.....  
.....
3. Address to:
- 4.
5. Commissioner & Special Secretary, Agriculture Department, Pant Krishi Bhawan, Janpath Jaipur.  
Reference: NIB No. F ( ) CT/ Gen / ..... dated .....  
The Bid fee amounting Rs. 400 /- has been deposited vide receipt No. ....  
Dated .....
6. We agree to abide by all the conditions mentioned in Agreement / Bid Notice published in the news paper Dated ..... issued by the Pant Krishi Bhawan Samuhik Suvidha Samiti, Pant Krishi Bhawan, Jaipur and also the further conditions of the said Bid Notice given in the attached sheets (all the pages of which have been signed by us in token of our acceptance of the term mentioned therein).
7. The rates for the construction / supply of following items are as per the H-Schedule enclosed in Annexure – I
8. Bank Draft No ..... Drawn on.....  
(Name of the Bank) dated ..... for Rs..... to cover Bid security is enclosed.
9. Bid security @ 2% in the form of D.D. in favour of Commissioner & Special Secretary, Agriculture Department.
10. The copy of registration certificate of the firm as per NIB, as..... Class Bidder is enclosed.
11. Dully filled Bid document is enclosed.
12. Period for Completion of Work : 2 (Two) months from Work Order

**Signature of Bidder**

**Name of Bidder**

**Firm.....**

**Address.....**

.....

.....

**Mobile No.**

Enclosure:

1. Demand draft for Bid security in favour of Secretary & Commissioner, Agriculture Department, Pant Krishi Bhawan Jaipur.
2. Copy of enlistment of Bidder / firm in Central/State Govt.
3. Copy of Bid fee depositing receipt.
4. Bid document duly filled and signed on each page.

**Signature of Bidder**



**Commissionerate of Agriculture  
Pant Krishi Bhawan Samuhik Suvidha Samiti  
Room No147, Pant Krishi Bhawan, Jaipur**

F2 ( )/CT/Gen/2016-17/

Date

**General Conditions of Contract**

1. Interested Bidder should completely fill the bidding document. Bidding document can be seen on official website of the Agriculture Department [www.krishi.rajasthan.gov.in](http://www.krishi.rajasthan.gov.in). The Bidder has to furnish the Bid form cost of Rs.400/- along with the bid form.
2. It will be two part (envelop) national open competitive-Bid procedure
3. Successful Bidder, after issuing the work order, have to deposit an agreement on a non judicial stamp paper of Rs. 500/- , failing which the Bid is liable to be rejected and the Bid security will be forfeited.
4. Successful Bidder, after issuing the work order, have to deposit an amount equal to the 5% of the Order value as Performance security deducting the amount already deposited as Bid security along with an agreement on a non judicial stamp paper of Rs. 500/- , failing which the Bid is liable to be rejected and the Bid security will be forfeited.
5. In any case work cannot be sublet to any other firm / Bidder.
6. In case of violation of the terms & conditions the Performance security will be forfeited and work order is liable to be cancelled.
7. It will be sole discretion of Commissioner & Special Secretary, Agriculture to agree or disagree the lowest rates.
8. Under the following conditions the Bid Performance security will be forfeited :-
  1. When Bidder, after opening the Bid but before accepting it, withdraws the proposal or changes it.
  2. When Bidder does not provide any desired agreement within the specified period.
  3. When Bidder, after giving work order, does not deposit the Performance security.
9. All arrangements required for the safe and smooth job will be made by the Bidder.
10. Sales Tax and other taxes, if any, will be paid by the Bidder as per existing government rules. He is bound to follow labour laws and fair wages clauses.
11. In case any material is required to be tested, the Bidder will make all arrangements at his own cost.
12. The work shall be completed within the period as mentioned in Notice Inviting Bids / Agreements, failing in, will fetch penalties as per rules of RTTP Act 2013.

13. Bid document should be duly filled in; improper or undue filled Bids are liable to be rejected.
14. Conditional Bids are liable to be rejected. Only rate quoted on Schedule-H will be considered as final.
15. The Bidder is expected to have visited the site of work and acquainted himself of general terrain, type of materials, their availability and other relevant information related to work by personally inspecting the area before Bidding for the work.
16. The validity of Bid rate will be 6 Months from the date of opening of Bids.
17. Other terms & conditions of contract shall be as per agreement and general condition of contract except the followings:-
  - (i) Authorized officers of the Pant Krishi Bhawan Samuhik Suvidha Samiti at Pant Krishi Bhawan, Janpath Jaipur, shall open the Bids as per rules.
  - (ii) Engineer-in charge shall be Assistant / junior Engineer of Pant Krishi Bhawan Samuhik Suvidha Samiti (Care Taker Cell), who will supervise the works.
  - (iii) Bid security to be deposited shall be 2% of estimated cost. In the absence of Bid security, Bid will not be considered.
19. The bidder should submit the shop drawing for approval before start of the work.
20. Performance security equal to the amount of 5% of the Bid value will have to be deposited by the successful bidder, in form of Demand Draft / Fixed Deposit / B.G. in favour of Commissioner & Special Secretary, Agriculture.
21. No equipment or personnel will be removed from site without permission of engineer in charge.
22. The bidder shall furnish the pert chart for execution of the work within the stipulated time schedule together with methodology of execution for each type of work and should obtain the approval of the engineer in charge prior to actual commencement of work.
23. Any material not confirming to the specification collected at site shall have to be removed by the bidder within a period of three days of the instruction issued by the engineer in charge in writing, failing which, such material shall be removed by the department at risk and cost of the bidder after expiry of three days period.
24. The material collected at site (Pant Krishi Bhawan) and paid provisionally shall remain under the watch and wards of the bidder till it is consumed fully on the work.
25. **The Bidder is advised not to give a conditional Bid. Conditional Bid is likely to be rejected.**
26. The Bidder shall sign all the Bid paper (document/pages/special condition/agreement) before submitting the Bid document.
27. Bidder will make his own arrangement for labour hutments and material storages as per space available at site. No storage space shall be provided by deptt.



28. Bidder will have to co-operate and adjust the work to be carried out in the running office condition.
29. The bidder will have to submit test certificate from authorized institute / lab of all material to be used for this work, if required.
30. All payment will be subject to the following adjustment/deduction
31. A. Income tax B. sale tax C. Performance security D. labour cess E. any other amount recoverable due to damage of other services, pending defects, defects specified by department at bidder's risk and cost, poor workman ship etc
32. Drawings and all materials shall be got approved from the engineer in charge before starting the work.
33. Safe custody of all items fixed at site shall be duty of bidder till the completion of the work. No extra payment shall be released by the dept. for this service.
34. It is the responsibility of the bidder to remove all debris and rubbish from work site in day to day working, otherwise it will get done on risk and cost basis as per actual payment made by dept / for this wok.
35. The Performance Security shall be refund only after expiry of defect liability period as per terms and condition and written request of the bidder.
36. The final bill shall be paid as per the norms of the payment terms & schedule only after satisfactory completion of the work. It the responsibility of the bidder to execute the work up to satisfaction with following terms

### **Payment Terms and Schedule**

- a) Payment will be made only after satisfactory completion of the work.
- b) Any liquidated damages/ penalties, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- c) Taxes, as applicable, will be deducted/ paid as per the prevalent rules and regulations.
- d) Due payments shall be made promptly by the purchaser, after submission of an invoice or request for payment by the selected bidder, subject to successful execution of work to the satisfaction of the purchaser.
- e) The currency or currencies in which payments shall be made to the selected bidder under this Contract shall be Indian Rupees (INR) only.
- f) All remittance charges will be borne by the selected bidder.
- g) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.

- h) Payment, in case testing is needed, shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- i) In case of Site not ready, the payment to the supplier shall be released for actual number of items installed and commissioned under respective lot. The payment for rest of the items which are not installed and commissioned by the supplier shall be released only after their installation and commissioning at the respective site.

## 2) Liquidated Damages (LD)

- a) In case of extension in the delivery/ installation period with liquidated damages the recovery shall be made on the basis of following percentages of value of Lifts which the bidder has failed to supply/ install/ complete:-
  - delay up to one fourth period of the prescribed period: 2.5%
  - delay exceeding one fourth but not exceeding half of the prescribed period: 5.0%
  - delay exceeding half but not exceeding three fourth of the prescribed period: 7.5%
  - delay exceeding three fourth of the prescribed period: 10%
- b) Fraction of a day in reckoning period of delay in supplies shall be eliminated if it is less than half a day.
- c) The maximum amount of liquidated damages shall be 10% of the contract value.
- d) If the bidder requires an extension of time in completion of contractual supply on account of occurrence of any uncontrolled hindrance, he shall apply in writing to the authority, which has placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of work.
- e) Delivery period may be extended with or without liquidated damages if the delay in the work is on account of hindrances beyond the control of the bidder.

**Signature of Bidder**

**Commissionerate of Agriculture  
Pant Krishi Bhawan Samuhik Suvidha Samiti  
Room No147, Pant Krishi Bhawan, Jaipur**

**PART - A**

**Technical Conditions**

**Eligibility Criteria:-**

1. The Bidder / Firm must have registered, in State Government / Central Government. (A certificate of the category to be attached).
2. The Bidder / Firm must have successfully carried out at least one work of such nature, within the past three years. (A certificate of the successfully completion of work mentioned as above has to be attached)
3. The Bidder / Firm must have a service center at Jaipur. (Address of service center at Jaipur along with mobile number of contact person(s) should be mentioned on firm's letter pad.)
4. The Bidder / Firm must enclose a Demand Draft of Rs. 10,000/- as Bid security in favour of Commissioner & Special Secretary, Agriculture . In absence of Bid security, there will be no consideration on Bid.
5. The bidder/Firm must have to enclose an audited balance sheet of last three years i.e. 2012-13, 2013-14, 2014-15 and average turnover of 5.00 Lacs, positive network.
6. The bidder/Firm must enclose Sales tax clearance certificate up to 31 march 2015.
7. **Bidder, fulfilling the above Eligibility criteria, will be declared successful in technical bidding and financial bid of the same will be opened.**

**Signature of Bidder**

**Pant Krishi Bhawan Samuhik Suvidha Samiti  
Room No147, Pant Krishi Bhawan, Jaipur**

**PART -B**

**H' - Schedule**

**Name of Work:- SITC for Installation of public addressing sys. & Emergency Voice Communication System in Pant Krishi Bhawan, Janpath Jaipur.**

**Period for Completion of Work: - 2 (TWO) Months**

<b>S No</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate Rs.</b>	<b>Any Taxes Applied</b>	<b>Gross Amount Rs.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7=5+6</b>
1	Supply, installation, testing & commissioning of Public address & emergency voice communication system, having the following components as per detailed specification below. The system shall be the integrated solution for BACK GROUND MUSIC (BGM), PUBLIC ADDRESS & EMERGENCY EVACUATION. The complete work includes fixing of wall /column Emergency Voice Communication Systems, all cabling & terminations along with all other works & materials necessary for the operation of the whole audio system. The system shall be capable of delivering a sound pressure level of 85 dB. The bidder must approve the items & submit detailed plan of fixing before installation. The makes approved are BOSCH /BOSE /PANASONIC/AHUJA					
A	<b>Power Amplifier</b> Supply, fixing & commissioning of powerful 480 W power amplifiers in a 3U high 19"case for rack mounting or tabletop in a 3U high 19"case for rack mounting or tabletop use. LEDs on the front panel show the status of the amplifier: power, audio output level, and supervised functions. The unit operates both on mains power and on a 24 V battery power supply for emergency backup, with automatic switchover. The system must have two balanced inputs with priority control, each with a loop-through facility. An additional 100 V line input is to be provided to connect the amplifier to a 100 V loudEmergency Voice Communication System line, to provide more power to remote locations. Gain or level control is to be located on the rear of the unit to avoid accidental setting change. A meter with LED bar shows the output level.	Each	1			
B	<b>Pre-Amplifier</b> Supply, fixing & commissioning of 6-zone, 2-channel					

	<p>distribution system Pre Amplifier unit with call and BGM (background music) capability. The BGM channel provides three inputs on stereo cinch-connectors, converted to mono, with front panel selection, volume control and bass and treble tone controls with shelving characteristics optimized for music. The BGM channel has a direct output on balanced XLR for dual channel operation. It can also feed the master output, with the lowest priority, for single channel operation. Zone selector switches on the front panel control the BGM routing. There should be overload protected 24 VDC output power for driving external relays .There should be six levels of priority available for BGM, microphone, call stations, trigger inputs and emergency input. A set of relays directs the amplifier output(s) to different loudEmergency Voice Communication System groups (zone switching). Each zone has a tri-state control on the front panel that can turn it off, switch it to the call channel, or to the BGM channel. The all-call microphone input and emergency activation override the call station selection on the call channel. Each zone may have separate priority overrides with preset volume levels assuring an appropriate message volume, independent of any local volume settings, such as for BGM. Both three-wire and four-wire override schemes are to be supported.</p>	Each	1			
C	<p><b>SIX ZONE CALL STATION MICROPHONE</b> The Call Station must make calls to selected zones (one to six and all-call) in a public address system built around the system pre-amplifier, a stylish, high-quality call station with a stable metal base design, a flexible microphone stem, and a unidirectional condenser microphone. It should make calls to all zones (all-call) in a public address system built around the system pre-amplifier to be used as table top or flush mounted in desktops. The call station should provides a balanced line-level output &amp; have 5 m cable terminated with a lockable 8-pin DIN connector along with PTT-key &amp; PTT status, LED Six zone selection keys, Six zone selection LEDs, All-call key, All-call status LED. Eight DIP switches etc as per technical specification:</p>	Each	1			
D	<p><b>Wooden Cabinet Emergency Voice Communication System</b> The cabinet Emergency Voice Communication Systems should be general purpose cost effective straight side loudEmergency Voice Communication Systems for indoor use, made of wooden frame with non-transparent woven cloth in matching colour along with background Good speech intelligibility and background music reproduction having excellent frequency response, Wide opening angle, In built 100V line matching transformer</p>	Each	150			
E	<p><b>EASY LINE SD TUNER BGM MUSIC PLAYER</b> The multi-source music player must be the ideal high-quality source for background music (BGM) coupled with existing public address systems with 19", 1U rack-mount unit with detachable rack mount brackets for tabletop use. The unit should have an IR remote control (with battery) to control all sources. It is compatible with High Capacity Secure Digital (SDHC),</p>					

	MMC memory cards, Flash USB sticks and bus powered (2.5") hard disk drives (HDD). (System connection cables are included) .It should provide uninterrupted music to be used with non-volatile steady state flash memory. The unit should have a digital source side for MP3's stored on SD card and USB memory stick, and a side with an FM tuner. It can play MP3's with bit-rates from 32 kbps to 320 kbps, mono / stereo / joint stereo, and both constant bit-rates (CBR) and variable bit-rate (VBR) are supported. The digitally controlled FM tuner uses a frequency synthesizer for accurate capture of radio stations and has presets for FM to store favourite radio stations. Both the player and the tuner can operate simultaneously on different outputs. The output level of the outputs can be set via the rear panel.	Each	1			
F	FM Tuner Must Contain FM tuner to cover the full radio frequency of FM i.e. from 87.5 MHz to 108 MHz as per technical specifications.	Each	1			
G	<b>SD/USB Audio Player</b> The unit operates on 230V,50 Hz power supply, complete in all respect along with good quality SD card of 32GB (price included) as per decision of the in charge.	Each	1			
H	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required of POLYCAB/ANCHOR/FINOLEX/L&T/HAVELLS make of size: 2 x 1.5 sq.mm	<b>MTR</b>	1500			
I	S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as required. 25 mm	<b>MTR</b>	1300			
J	Labour and fixing charges for above components including all material, screws, fasteners, connectors etc required for successful operation of PA system including making good the damages, repairs etc as per satisfaction of in charge.	<b>Job</b>	1			

**Note: - All amount to be filled in Indian Rupees.**

**Signature of Engineer-in-Charge**

**Signature of Bidder**



## **ANNEXURE-1: TECHNICAL SPECIFICATIONS**

### a) Power Amplifier

1. The amplifier must have 70 V and 100 V outputs for constant voltage loudEmergency Voice Communication System systems and a low impedance output for 8 ohm loudEmergency Voice Communication System loads.
2. Output power (rms/maximum) :**480 W / 720 W**
3. Power reduction on backup power: -1 dB
4. Frequency response 50 Hz to 20 kHz (+1/-3 dB @ -10 dB
5. ref. rated output)
6. Distortion <1% @ rated output power, 1 kHz
7. S/N (flat at max volume) >90 dB
8. Line inputs 2 x
9. Connector 3-pin XLR, balanced
10. Sensitivity 1 V
11. Impedance 20 kohm
12. CMRR >25 dB (50 Hz to 20 kHz)
13. Gain :40 dB
14. Sensitivity: 100 V
15. Impedance :330 kohm
16. Line loop-through output 2 x
17. Connector: 3-pin XLR
18. Nominal level :1 V
19. Impedance: Direct connection to line input
20. LoudEmergency Voice Communication System outputs :3 x
21. Connector :Screw, floating
22. Direct output :100 V, 70 V, 8 ohm
23. Priority only (from input 1) :100V or 70 V internally selectable

## b) Pre Amplifier

1. Frequency response 50 Hz to 20 kHz (+1 / -3 dB)
2. Distortion <0.5%
3. Bass control  $\pm 10$  dB @ 100 Hz
4. Treble control  $\pm 10$  dB @ 10 kHz
5. Channel separation >70 dB @ 1 kHz
6. Priority mute >40 dB
7. Dynamic range 100 dB
8. Connectors :5-pin DIN, 3-pin XLR, balanced, with
9. Phantom power
10. Sensitivity 1 mV (mic), 200 mV (line)
11. Impedance >1 kohm (mic); >5 kohm (line)
12. S/N (flat at max volume) >63 dB (mic); >70 dB (line)
13. S/N (flat at min volume/muted) >75 dB
14. CMRR >40 dB (50 Hz – 20 kHz)
15. Headroom >25 dB
16. Speech filter -3 dB @ 315 Hz, high-pass, 6 dB/oct
17. Phantom power supply 16 V via 1.2 kohm, (mic mode only)
18. **Line input 3 x**
19. Connector :Cinch, stereo converted to mono, unbalanced
20. Sensitivity :200 mV
21. Impedance: 22 kohm
22. S/N (flat at max volume): >70 dB
23. S/N (flat at min volume/muted):>75 dB
24. Headroom >25 dB
25. **Master output 1 x**
26. Connector: 3-pin XLR, balanced
27. Nominal level :1 V
28. Impedance :<100 ohm

29. Tape output :1 x
30. Connector :Cinch, 2 x mono
31. Nominal level :350 mV
32. Impedance :<1 kohm
33. **Headphone output 1 x**
34. Connector: 6.3 mm jack stereo, signal mono
35. Nominal level :3 V
36. Impedance :<100 ohm
37. Zone relays: 5 A
38. Contacts voltage :250 V
39. Contacts current :8 A
40. **Interconnection input /emergency :1 x**
41. Connector 3-pin XLR, balanced
42. Sensitivity 200 mV (interconnection),100 mV to 1 V adjustable
43. Impedance >10 kohm
44. VOX threshold 45 mV (emergency)
45. **Interconnection output 1 x**
46. Connector 3-pin XLR, balanced
47. Nominal level 200 mV
48. Impedance <100 ohm
49. Relay contacts 30 V, 1 A
50. DC supply output voltage 24 V, 250 mA max
51. Operating temperature -10 °C to +55 °C (14 °F to +131 °F)
52. Storage temperature -40 °C to +70 °C (-40 °F to+158 °F)
53. Relative humidity <95%

54. The unit complies with EN 60065, EN 55103-2, EN 55103-1
55. The unit operates on 230V, 50 Hz power supply, complete in all respect as per decision of the in charge.

### C) Six Zone Call Station Microphone

1. Voltage range : 18 to 24 V
2. Current consumption: <30 mA
3. Nominal sensitivity : 85 dB SPL (gain preset 0 dB)
4. Nominal output level : 700 mV
5. Input sound level (max) : 110 dB SPL
6. Gain preset : +6 / 0 / -15 dB
7. Limiter threshold : 2 V
8. Compression ratio limiter; 1:20
9. Distortion <0.6% (maximum input)
10. Input noise level (equiv.) 25 dB SPLA
11. Frequency response 100 Hz to 16 kHz
12. Speech filter -3dB @ 315 Hz, high-pass, 6 dB/oct
13. Output impedance 200 ohm
14. Chimes : 18 different combinations
15. Priorities: 2 different priorities
16. Operating temperature: -10 °C to +55 °C (14 °F to +131 °F)

### D) Wooden Cabinet Emergency Voice Communication Systems

1. Rated power : 6 / 3 / 1.5 W
2. Rated Input Voltage : 100V
3. Sound Pressure Level (at rated power/1W, 1 KHz, 1m): 96 / 90 dB
4. Effective frequency range (-10 dB) : 200 Hz – 15 kHz
5. Rated input impedance : 1667 ohm
6. Opening Angle (-6 dB) : 150° / 70° (at 1 / 4 KHz)
7. Rated power : 6 / 3 / 1.5 W

8. Rated Input Voltage :100V
9. Sound Pressure Level(at rated power/1W,1 KHz, 1m):96 / 90 dB
10. Effective frequency range (-10 dB) : 200 Hz – 15 kHz
11. Rated input impedance :1667 ohm
12. Opening Angle (-6 dB) :150° / 70° (at 1 /4 KHz)

#### E) FM Tuner

1. Distortion:< 1 %
2. Total harmonic distortion (1 kHz):< 0.8 %
3. FM range:87.5 ÷ 108 MHz
4. Frequency response:50 Hz ÷ 12 kHz
5. Channel separation (1 kHz):≥ 40 dB
6. Intermediate rejection;≥ 70 dB
7. Signal / noise ratio:≥ 50 dB
8. Intermediate frequency:10.7 MHz
9. Input sensitivity:6 μV e.m.f. (2 uV)
10. Automatic tuning sensitivity:≤ 50 μV
11. Antenna input:75 ohms (coaxial)
12. Audio output level:- 10 dBV

#### F) SD/USB Audio Player

1. Maximum storage capacity:- 32 GB
2. Maximum number of tracks:2000
3. Frequency response:50 Hz ÷ 12 kHz
4. Signal / noise ratio:≥ 50 dB
5. Total harmonic distortion (1 kHz):< 0.8 %
6. Stereo separation:≥ 60 dB
7. Audio output level:- 10 dBV
8. Mounting: Stand-alone, 19" rack(19" wide, 1U high)
9. Operating temperature:-25 °C to +45 °C

### **Special Terms and Conditions of Contract.**

**NAME OF WORK: Supply, Installation, Testing & Commissioning of Public addressing Sys. & Emergency Voice Communication System for Pant Krishi Bhawan, Janpath, Jaipur.**

1. The scope of work shall cover **SITC of Public addressing Sys. & Emergency Voice Communication System at Pant Krishi Bhawan, in all floor.**
2. The Bidder shall furnish all the documents/catalogues etc. to prove soundness of product.
3. The Bidder has to make his own arrangements for, manpower etc
4. The Bidder shall visit the site of the work and shall satisfy him as to the conditions under which the work is to be performed. He shall also check & ascertain the location of any existing structures or equipments or any other situations that may affect the work. No claim made in ignorance or misunderstanding of site conditions on account of grounds of insufficient description shall be allowed at a later date.
5. The unit price quoted should excluding sales tax, octroi, excise duty, works contract tax, Income tax and other statutory expenses, No extra payment and levies will be payable.
6. **It is enjoyed upon the Bidder to execute quality work, thereby, ensuring trouble free operation of the services for the next 6 months. The defect liability period shall be 6 months from the date of completion of work, During DLP, the Bidder shall supply material and labour free of cost to rectify the defects in material or workmanship. All electrical / electronic and mechanical mechanism of Public addressing sys. & Emergency Voice Communication System including consumables shall be covered under DLP Items covered under defect liability period shall be repaired or re placed by the Bidder as directed by engineer in charge**
7. **Conditions regarding Performance securities.**
  - > **Security for DLP:** - The Bidder agency shall have to furnish Performance security in the form of Bank Guarantee for DLP as per rules of RTTP Act 2013, valid from the date of completion, which shall be assigned by the Engineer in charge.
  - > **Forfeiture of SD:-** In case contracting agency fails to rectify the defects within stipulated period notified to him by the Engineer in charge concerned under contract agreement, the Engineer in charge shall serve a final notice for 15 days time reckoned from the date of issue of notice to rectify the defects, In case the contracting agency not responding to the notice and fails in rectification of defects the Engineer in charge will get the defects removed at the risk and cost of the contracting agency. Action under enlistment rules etc. shall also be taken against the contracting agency by the competent authority.
  - > **Force Majeure:-** The defect arises due to earthquake and natural calamities shall not be the responsibility of contracting agency.

**All general Conditions of RTTP Act 2012 & Rules 2013 shall apply.**

**Signature of Bidder**